| Ref # | Hits | Search Query | DBs | Defa ult Oper ator | Plurals | Time Stamp |
|------------|-------|---|--|-----------------------------|---------|------------------|
| S1 | 15012 | 713/189-194.cds. 380/1,252-254,28-30.cds. 726/22,26.cds. | US-PGPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/19 09:48 |
| 82 | 345 | (obscur\$5 hid\$3) with (original\$2) with (calculation operation function) | US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/19 09:45 |
| S3 | 34 | St and S2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/19 09:45 |
| S4 | 18 | ("4658093" "4688169" "4888798" "5199066" "5337357" 5457746" "5490216" "5537357" "5569751" "55613618" "5615061" "55625690" "5686186" "5615061" "562569015" "5649187" "5692793" "5790664"). PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/07/19 09:51 |
| S 5 | 366 | S1 and (valid\$7 verif\$7 authenticat\$3 compar\$3 match\$3) with (intermediat\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/19 09:54 |
| S6 | 265 | S5 and (signature hash\$3 checksum\$4) | US-PGPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/19 09:55 |
| S7 | 147 | S6 and (alter\$4 modif\$7 hid\$3 obscur\$5 chang\$3) with (function calculation operation) | US-PGPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM TDB | OR | ON | 2010/07/19 09:56 |

| | | EAST Search History | (FIIOI A | u ., | | |
|-----|-------|---|--|------|----|------------------|
| S8 | 11 | ("4993068" "5588059" "5850443").PN. OR ("6658569").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/07/19 12:49 |
| S9 | 6 | ("4993068" "5588059" "5850443" "6314409" "6480959" "6658569").PN. OR ("7050581").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/07/19 13:39 |
| S10 | 15012 | 713/189-194.cds. 380/1,252-254,28-30.cds. 726/22,26.cds. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/19 15:02 |
| S11 | 366 | S10 and (valid\$7 verif\$7 authentical\$3 compar\$3 match\$3) with (intermediat\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/19 15:02 |
| S12 | 265 | S11 and (signature hash\$3 checksum\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/19 15:02 |
| S13 | 147 | S12 and (alter\$4 modif\$7 hid\$3 obscur\$5 chang\$3) with (function calculation operation) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/19 15:02 |
| S14 | 118 | S12 not S13 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/19 15:02 |
| S15 | 6553 | (obfuscat\$3 obscur\$5) with (function calculation operation) and (valid\$7 verif\$7 check\$3 compar\$3 authenticats authoriz\$5) with (intermed\$5 function calculation operation) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/19 15:28 |

| | | EAST Search history | y (FIIOI A | u L) | | |
|------|-------|--|--|------|----|------------------|
| S16 | 314 | S10 and S15 | US-PGPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/19 15:28 |
| S17 | 293 | S16 not (S13 S14) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/19 15:28 |
| S18 | 14 | ("20030040929" "20040186961" "5265163" "5265163" "5652892" "6088794" "6985502" "6920561").PN. ("20060200681").urpn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/19 15:35 |
| S19 | 2018 | (power near analysis dpa) and (valid\$7 verif\$7 check\$3 compar\$2 authenticat\$3 authoriz\$5) with (intermed\$5 function calculation operation) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/21 13:39 |
| \$20 | 15039 | 713/189-194.cds. 380/1,252-254,28-30.cds. 726/22,26.cds. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/21 13:39 |
| \$21 | 187 | S19 and S20 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/21 13:39 |
| S22 | 24 | "1011800" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/21 13:43 |
| S23 | 4 | ("4799258" "6108419" "6504929" "6539092 ").PN. | USPAT | OR | ON | 2010/07/21 13:57 |
| S24 | 2 | ("2005/0021990").URPN. | USPAT | OR | ON | 2010/07/21 13:59 |

| | | EAST Search History | y (Prior A | art) | | |
|------|------|--|--|------|----|------------------|
| 825 | 18 | ("4405829" "5289397" "5987131" "5991415 "["6973190").PN. ("20040125949" "20040148325" "20040208 317" "20040215685" "20040254967" "2005 0157870" "20050163314" "20050175174" " 20060050868" "4405829" "5289397" "5987 131" "5991415" "6298442" "6748941" 697 | US-PGPUB; USPAT | OR | ON | 2010/07/21 14:01 |
| S26 | 13 | ("20010053220" "20020114451" "20030044 003" "20070058800" "5452358" "5796836" (#287839" "6295466"), PN. ("20010053220" "20020114451" "20030044 003" "200410313816" "20040148604" "2006 0159257" "20070058800" "5452358" "5796 836" "6278783" "6295606" "6459631" "669 4436"), PN. | US-PGPUB; USPAT | OR | ON | 2010/07/21 14:08 |
| \$27 | 23 | ("20020051534" "20020124178" "20060056 622" "20070078864" "6028939" "6278783" "6295600" "72064081" "7580519"), FN. ("20020051554" "20020124178" "20030048 903" "20040025032" "20040091107" "2004 0193940" "20040193989" "20050271202" " 20050273630" "20050273631" "200600566 221" "20060177052" "20070076884" "20070 180541" "6028939" "6278783" "6295606" " 7159115" "7206408" "7389131" "7397916" | US-PGPUB; USPAT | OR | ON | 2010/07/21 14:14 |
| \$28 | 1734 | 708/160,164,200,231,233,235,236,510,520, 523,530-534.cds. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/21 14:57 |
| 829 | 10 | \$28 and (obfuscat\$3 obscur\$5) with (function calculation operation) and (valid\$7 verif\$7 check\$3 compar\$3 authenticat\$3 authoriz\$5) with (intermed\$5 function calculation operation) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/21 14:57 |
| \$30 | 15 | \$28 and (obfuscat\$3 obscur\$5) with (function calculation operation) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB | OR | ON | 2010/07/21 14:58 |

| | | EAST Search History | (Prior A | irt) | | |
|------|-----|--|--|------|----|------------------|
| \$31 | 5 | S30 not S29 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/21 14:58 |
| S32 | 2 | S19 and S28 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/21 14:58 |
| \$33 | 685 | \$28 and (valid\$7 verif\$7 check\$3 compar\$3 authenticat\$3 authoriz\$5) with (intermed\$5 function calculation operation) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/21 14:59 |
| \$34 | 2 | (power near analysis dpa) and S33 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/21 14:59 |
| \$35 | 1 | (S20 S28) and (inject\$3 one\$1to\$1one) and (surject\$3 "onto") with function | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/21 15:00 |
| S36 | 5 | (S20 S28) and (surject\$3 "onto") with function | US-PGPUB; USPAT; USCCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/21 15:01 |

EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Defa ult Oper | Plurals | Time Stamp |
|----------|------|--|-------------------|---------------------|---------|------------------|
| L18 | 9 | (verif\$7 with intermediat\$3 with calculat\$3). | US-PGPUB; UPAD | ator OR | ON | 2010/07/28 18:13 |
| L20 | 195 | (verif\$7 with function\$4 with calculat\$3). | US-PGPUB; UPAD | OR | ON | 2010/07/28 18:18 |
| L21 | 8 | 20 and intermediat\$3.dm. | US-PGPUB; UPAD | OR | ON | 2010/07/28 18:18 |

7/28/2010 6:28:12 PM Z:\10520806\Oworkspace1.wsp

EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Defa ult Oper ator | Plurals | Time Stamp |
|----------|------|---|-------------------|-----------------------------|---------|------------------|
| L1 | 51 | verif\$7 with intermediat\$3 with calculat\$3 | US-PGPUB; UPAD | OR | ON | 2010/07/29 10:33 |

7/29/2010 10:34:47 AM Page 1